## Claims

[c1] A method for facilitating a transport scheme in an automated material handling system environment, comprising:

detecting an occurrence of a trigger event while monitoring production operations in an automated material handling system environment, said trigger event being user-defined;

identifying a materials candidate to purge from a production line in response to:

said trigger event;

production data captured relating to said materials candidate; and

user-defined criteria for purging materials from said production line;

selecting a disposition plan for handling said materials candidate;

generating a transport process job for said materials candidate operable for instructing said automated material handling system on executing said disposition plan; and

transmitting said transport process job to said automated material handling system for execution.

- [c2] The method of claim 1, further comprising updating production data to reflect activity conducted as a result of executed process jobs.
- [c3] The method of claim 1, wherein said trigger event comprises at least one of:
  - a timestamp;
  - a full stocker:
  - a WIP level achieved;
  - a product type;
  - a process time; and
  - a throughput level.
- [c4] The method of claim 1, wherein captured production data includes:
  - stocker identification;
  - stocker load;
  - stocker capacity; and
  - materials carried on said stocker.
- [c5] The method of claim 4, wherein said captured production data further includes performance metrics for a stocker, including at least one of:
  - relative throughputs;
  - mean stocker cycle times for materials capacity;
  - peak stocker cycle times for materials;

stocker mean times between incidents; stocker availability; and alarm condition relating to at least one of: carrier drops; weight loads; contamination control; and charge build up on carriers.

- The method of claim 4, wherein said captured production data further includes at least one of:

  manufacturing process steps utilized on production materials; and

  status of production activities occurring within a production area.
- [c7] The method of claim 1, wherein said user-defined criteria includes:
  an age of a product being manufactured;
  type of product being manufactured;
  a class of product being manufactured;
  priorities established for scheduled materials as set out in a production schedule;
  life span of materials in a production line; and lots that have not been processed for a specified period of time.
- [08] The method of claim 1, wherein said disposition plan in-

cludes:

scrapping materials identified in said materials candidate;

transporting said materials candidate to a remote storage location; and

transporting said materials candidate to an alternate production area.

- [09] The method of claim 1, further comprising a user interface operable for defining said trigger event, said criteria, and said disposition plan.
- [c10] The method of claim 1, further comprising:

  parsing data relating to said materials candidate opera
  ble transforming said data into a format usable by said

  automated material handling system.
- [c11] A storage medium encoded with machine-readable computer program code for facilitating a transport scheme in an automated material handling system environment, said storage medium including instructions for causing a server to implement a method, comprising: detecting an occurrence of a trigger event while monitoring production operations in an automated material handling system environment, said trigger event being user-defined;

identifying a materials candidate to purge from a pro-

duction line in response to: said trigger event; production data captured relating to said materials candidate; and user-defined criteria for purging materials from said production line: selecting a disposition plan for handling said materials candidate: generating a transport process job for said materials candidate operable for instructing said automated material handling system on executing said disposition plan; and transmitting said transport process job to said automated material handling system for execution. The storage medium of claim 11, wherein said trigger event comprises at least one of: a timestamp; a full stocker: a WIP level achieved: a product type; a process time; and a throughput level. The storage medium of claim 11, wherein captured pro-

[c12]

[c13]

duction data includes:

stocker identification;

stocker load; stocker capacity; and materials carried on said stocker.

[c14] The storage medium of claim 11, wherein said captured production data further includes performance metrics for a stocker, including at least one of: relative throughputs; mean stocker cycle times for materials capacity; peak stocker cycle times for materials; stocker mean times between incidents; stocker availability; alarm condition relating to at least one of: carrier drops; weight loads; contamination control; and charge build up on carriers; manufacturing process steps utilized on production materials; and status of production activities occurring within a produc-

[c15] The storage medium of claim 11, wherein said user-defined criteria includes:
an age of a product being manufactured;
type of product being manufactured;
a class of product being manufactured;

tion area.

priorities established for scheduled materials as set out in a production schedule;

life span of materials in a production line; and lots that have not been processed for a specified period of time.

[c16] The storage medium of claim 11, wherein said disposition plan includes:

scrapping materials identified in said materials candidate;

transporting said materials candidate to a remote storage location; and

transporting said materials candidate to an alternate production area.

[c17] A system for facilitating a transport scheme in an automated material handling system environment, comprising:

a server executing an automated material handling system control application;

a data repository in communication with said server, said data repository storing:

trigger events operable for defining conditions for initiating a search for productions materials as candidates for purging;

purge criteria operable for defining conditions for executing a purge operation; disposition operations operable for defining instructions for handling

production materials designated for purging; and captured production data, said captured production data received from

production operations carried out on production materials occurring in said production area;

a production area in communication with said server via a communications network, said production area including:

at least one stocker carrying production materials; at least one production bay including a process tool; and at least one transport vehicle;

a purge tool executing on said server, said purge tool including:

a monitor component;

a user interface; and

a rules engine.

[c18] The system of claim 17, wherein said captured production data includes:

stocker identification;

stocker load;

stocker capacity; and

materials carried on said stocker.

[c19] The system of claim 18, wherein said captured production data further includes performance metrics for a stocker, including at least one of: relative throughputs; mean stocker cycle times for materials capacity; peak stocker cycle times for materials; stocker mean times between incidents; stocker availability; and alarm condition relating to at least one of: carrier drops; weight loads; contamination control; and charge build up on carriers.

[c20] The system of claim 19, wherein said captured production data further includes at least one of:
manufacturing process steps utilized on production materials; and
status of production activities occurring within a production area.